

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|--|----------|------------------|---------|------------------|
| L1 | 2216 | (fiber fibre fibers fibres waveguide wave-guide) with (insert\$4 penetrat\$4 pok\$3) with (couple coupling transmit\$4 receiv\$4 reflect\$4) | US-PGPUB | OR | ON | 2005/10/14 13:36 |
| L2 | 6069 | (fiber fibre fibers fibres waveguide wave-guide) with (vcsl laser) with (couple coupling transmit\$4 receiv\$4 reflect\$4) | US-PGPUB | OR | ON | 2005/10/14 13:37 |
| L3 | 487 | L1 and L2 | US-PGPUB | OR | ON | 2005/10/14 13:37 |
| L4 | 256 | L3 and "385"/\$.ccls. | US-PGPUB | OR | ON | 2005/10/14 13:37 |
| L5 | 209 | L4 and (penetrat\$4 cut\$3 insert\$4 poke) near4 (fiber fibre waveguide sheath sleeve) | US-PGPUB | OR | ON | 2005/10/14 13:39 |
| L6 | 100 | L5 and (etch etching) | US-PGPUB | OR | ON | 2005/10/14 13:39 |
| S1 | 72272 | (optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4) | USPAT | OR | OFF | 2004/10/19 11:08 |
| S2 | 96256 | optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7) | USPAT | OR | OFF | 2004/10/19 11:10 |
| S3 | 1230788 | insert\$4 penetrat\$4 | USPAT | OR | OFF | 2004/10/19 11:11 |
| S4 | 12732 | ((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and (insert\$4 penetrat\$4) and @ad<"20030805" | USPAT | OR | OFF | 2004/10/19 11:11 |
| S5 | 10328 | (insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1) | USPAT | OR | OFF | 2004/10/19 11:11 |
| S6 | 2632 | ((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805" | USPAT | OR | OFF | 2004/10/19 11:12 |
| S7 | 1543 | ((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and ("385"/\$.ccls. | USPAT | OR | OFF | 2004/10/19 14:06 |

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| S8 | 1236 | ((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls. | USPAT | OR | OFF | 2004/10/19 11:15 |
| S9 | 373 | (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic same fiber) | USPAT | OR | OFF | 2004/10/19 11:16 |
| S10 | 251 | (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic with fiber) | USPAT | OR | OFF | 2004/10/19 11:16 |
| S11 | 125 | (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic near4 fiber) | USPAT | OR | OFF | 2004/10/19 11:27 |
| S12 | 126 | (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic with fiber)) not (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic near4 fiber)) | USPAT | OR | OFF | 2004/10/19 11:31 |

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| S13 | 122 | (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic same fiber)) not (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic with fiber))) | USPAT | OR | OFF | 2005/06/03 10:17 |
| S14 | 923 | "vcsl" and (optic\$3 near3 fiber\$1) | USPAT | OR | OFF | 2004/10/19 15:37 |
| S15 | 749 | ("vcsl" and (optic\$3 near3 fiber\$1)) and (optic\$3 near5 (coupl\$3 connect\$4 interconnect\$4)) | USPAT | OR | OFF | 2004/10/19 15:38 |
| S16 | 747 | ((("vcsl" and (optic\$3 near3 fiber\$1)) and (optic\$3 near5 (coupl\$3 connect\$4 interconnect\$4))) and @ad<"20030805" | USPAT | OR | OFF | 2004/10/19 15:38 |
| S17 | 340 | ((("vcsl" and (optic\$3 near3 fiber\$1)) and (optic\$3 near5 (coupl\$3 connect\$4 interconnect\$4))) and @ad<"20030805") and ("385"/\$. ccls.) | USPAT | OR | OFF | 2005/06/03 10:18 |
| S18 | 1 | ("5305401").PN. | USPAT; USOCR | OR | OFF | 2004/10/19 16:29 |
| S22 | 236506 | (optic\$4) near5 (connect\$4 coupl\$3 interconnect\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/09 12:49 |
| S23 | 236799 | optic\$4 near5 (connect\$4 coupl\$3 interconnect\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:00 |
| S24 | 539147 | (vcsl\$1 laser\$1 diode\$1 source\$1) same (optic\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:02 |

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| S25 | 44470 | (penetrat\$4 pierc\$4 insert\$5 pok\$4 stick\$4) same (optic\$4 near3 (fibre\$1 fiber\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:17 |
| S26 | 13527 | S23 and S24 and S25 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:04 |
| S27 | 6838 | S23 same S25 and S24 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:24 |
| S28 | 1260 | (S23 and S24 and S25).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:25 |
| S29 | 0 | S28 and "385".ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:25 |
| S30 | 242 | S28 and "385"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 12:26 |
| S31 | 238 | S30 and @ad<"20030805" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S32 | 30149 | 385/15-94.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 13:08 |

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| S33 | 29090 | S32 and @ad<"20030805" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 13:08 |
| S34 | 715 | S33 and @pd>"20041019" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 13:18 |
| S35 | 111 | S34 and (((penetrat\$5 pierc\$4 insert\$5 pok\$4) with (optic\$4 near3 (fibre\$1 fiber\$1)) same (coupl\$4 connect\$4 interconnect\$4 transmit\$5))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S36 | 1 | ("20050031265").PN. | US-PGPUB | OR | OFF | 2005/02/10 13:18 |
| S37 | 1894 | (diode\$1 LED\$2) with (VCSEL\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 15:05 |
| S38 | 127 | (diode\$1 LED\$2 VCSEL\$2) near15 (lateral\$3 near3 coupl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 15:06 |
| S39 | 5 | S38 and S37 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/10 15:07 |
| S40 | 5 | S39 and @ad<"20030805" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |

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| S41 | 5 | (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic same fiber)) not (((((optic\$4) near3 (coupl\$3 connect\$4 interconnect\$4)) and (optoelec\$7 (opto-elec\$7) ((opto optic\$3) near3 elec\$7)) and ((insert\$4 penetrat\$4) with (optic\$3 near2 fiber\$1)) and @ad<"20030805") and (385/15-94).ccls.) and (plastic with fiber)) and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:22 |
| S42 | 39 | ((("vcsel" and (optic\$3 near3 fiber\$1)) and (optic\$3 near5 (coupl\$3 connect\$4 interconnect\$4))) and @ad<"20030805") and ("385"/\$.ccls.) and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:23 |
| S43 | 246327 | optic\$4 near5 (connect\$4 coupl\$3 interconnect\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S44 | 556880 | (vcsel\$1 laser\$1 diode\$1 source\$1) same (optic\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S45 | 45917 | (penetrat\$4 pierc\$4 insert\$5 pok\$4 stick\$4) same (optic\$4 near3 (fibre\$1 fiber\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S46 | 1281 | (S43 and S44 and S45).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S47 | 246 | S46 and "385"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |

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| S48 | 2 | S47 and @ad<"20030805" and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S49 | 31035 | 385/15-94.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S50 | 29572 | S49 and @ad<"20030805" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S51 | 1193 | S50 and @pd>"20041019" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:19 |
| S52 | 90 | S51 and (((penetrat\$5 pierc\$4 insert\$5 pok\$4) with (optic\$4 near3 (fibre\$1 fiber\$1)) same (coupl\$4 connect\$4 interconnect\$4 transmit\$5))) and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:14 |
| S53 | 2052 | (diode\$1 LED\$2) with (VCSEL\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:20 |
| S54 | 134 | (diode\$1 LED\$2 VCSEL\$2) near15 (lateral\$3 near3 coupl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:20 |
| S55 | 6 | S54 and S53 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |

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| S56 | 0 | S55 and @ad<"20030805" and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/06/03 10:20 |
| S57 | 2267 | (diode\$1 LED\$2) with (VCSEL\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |
| S58 | 142 | (diode\$1 LED\$2 VCSEL\$2) near15 (lateral\$3 near3 coupl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |
| S59 | 6 | S58 and S57 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |
| S60 | 5 | S59 and @ad<"20030805" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |
| S61 | 0 | S60 and @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:12 |
| S62 | 256843 | optic\$4 near5 (connect\$4 coupl\$3 interconnect\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S63 | 577152 | (vcsel\$1 laser\$1 diode\$1 source\$1) same (optic\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |

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| S64 | 47479 | (penetrat\$4 pierc\$4 insert\$5 pok\$4 stick\$4) same (optic\$4 near3 (fibre\$1 fiber\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S65 | 1302 | (S62 and S63 and S64).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S66 | 249 | S65 and "385"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S67 | 3 | S66 and @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:15 |
| S68 | 2267 | (diode\$1 LED\$2) with (VCSEL\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S69 | 142 | (diode\$1 LED\$2 VCSEL\$2) near15 (lateral\$3 near3 coupl\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S70 | 6 | S69 and S68 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S71 | 0 | S70 and @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |

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| S72 | 4 | S66 and @ad<"20030805" and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:13 |
| S73 | 609911 | S72 @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:16 |
| S74 | 32084 | 385/15-94.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:14 |
| S75 | 30009 | S74 and @ad<"20030805" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:14 |
| S76 | 1629 | S75 and @pd>"20041019" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:14 |
| S77 | 165 | S76 and (((penetrat\$5 pierc\$4 insert\$5 pok\$4) with (optic\$4 near3 (fibre\$1 fiber\$1)) same (coupl\$4 connect\$4 interconnect\$4 transmit\$5))) and @pd>"20050210" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:14 |
| S78 | 75 | S77 and @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:17 |
| S79 | 609911 | S72 @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:16 |

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| S80 | 2 | S72 and @pd>"20050601" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/12 13:16 |
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